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### 181 [Optimizing threaded MPI execution on SMP clusters](#)



Hong Tang, Tao Yang

 June 2001 **Proceedings of the 15th international conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(273.33 KB)

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Our previous work has shown that using threads to execute MPI programs can yield great performance gain on multiprogrammed shared-memory machines. This paper investigates the design and implementation of a thread-based MPI system on SMP clusters. Our study indicates that with a proper design for threaded MPI execution, both point-to-point and collective communication performance can be improved substantially, compared to a process-based MPI implementation in a cluster environment. Our contrib ...

**Keywords:** MPI, SMP clusters, communication optimization, multi-threading

### 182 [Design considerations for the transformation of MINIX into a distributed operating system](#)



P. Tobin Maginnis

 February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science**

Publisher: ACM Press

Full text available: pdf(921.97 KB)

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MINIX is a version seven UNIX compatible operating system written for the Intel 8088 CPU and IBM-PC circuit package. MINIX is being transformed into a distributed operating system by adding four components to the basic operating system. These include an extended IPC service, network service manager, resource manager, and communication manager. Design considerations include a definition of Distributed Operating Systems (DOSs), a description of existing DOSs, a description of operating system ...

### 183 [BuddyCache: high-performance object storage for collaborative strong-consistency applications in a WAN](#)



Magnus E. Bjornsson, Liuba Shrira

 November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN**

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